Progress Energy

March 28, 2007

Charles L.A. Terreni
Chief Clerk and Administrator
South Carolina Public Service Commission
Post Office Drawer 11649
Columbia, South Carolina 29211

Re: Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.
Power Plant Performance Report (February 2007)
Docket No. 2006-224-E

Dear Mr. Terreni:

Enclosed are an original and one copy of the Power Plant Performance Report for Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. for the month of February 2007.

Sincerely,

s/ Len S. Anthony

Len S. Anthony
Deputy General Counsel – Regulatory Affairs

LSA/dhs
Enclosures
45612

c: John Flitter (ORS)

Progress Energy Service Company, LLC
P.O. Box 1551
Raleigh, NC 27602

February 2007

The following units had no off-line outages during the month of February:

Brunswick Unit 1
Brunswick Unit 2
Harris Unit 1
Robinson Unit 2
Roxboro Unit 2
Roxboro Unit 3
Roxboro Unit 4

February 2007

Mayo Unit 1

Full Forced Outage

A. Duration: The unit was taken out of service at 20:13 on February 2, and returned to service at 20:04 on February 4, a duration of 47 hours and 51 minutes.

B. Cause: Main Steam Leak

C. Explanation: The unit was taken out of service to investigate and repair a leak in a main steam system.

D. Corrective Action: Corrective maintenance activities were conducted to repair the leak in the main steam system, outage activities were completed, and the unit was returned to service.

Full Scheduled Outage

A. Duration: The unit was taken out of service at 19:25 on February 23, and remained offline through the end of February for a duration of 124 hours and 35 minutes.

B. Cause: Boiler Inspection

C. Explanation: The unit was taken out of service for a planned boiler inspection.

D. Corrective Action: Planned outage activities were in progress at the end of February.

BASE LOAD POWER PLANT PERFORMANCE REPORT
Brunswick 1 **

	Month of February 2007	Twelve Month Summary	See Notes*
MDC	938 MW	938 MW	1
Period Hours	672 HOURS	8,760 HOURS	
Net Generation	654,219 MWH	7,218,068 MWH	2
Capacity Factor	103.79 %	87.84 %	
Equivalent Availability	100.00 %	85.58 %	
Output Factor	103.79 %	101.21 %	
Heat Rate	10,233 BTU/KWH	10,328 BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	792,437	9.64	3
Partial Scheduled	8	0.00	30,450	0.37	4
Full Forced	0	0.00	292,813	3.56	5
Partial Forced	0	0.00	60,218	0.73	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	630,336		8,216,880		8

* See 'Notes for Nuclear Units' filed with the January 2007 report.
** Gross of Power Agency

BASE LOAD POWER PLANT PERFORMANCE REPORT
Brunswick 2 **

	Month of February 2007		Twelve Month Summary		See Notes*
MDC	937	MW	937	MW	1
Period Hours	672	HOURS	8,760	HOURS	
Net Generation	636,309	MWH	7,341,472	MWH	2
Capacity Factor	101.06	%	89.44	%	
Equivalent Availability	99.96	%	88.47	%	
Output Factor	101.06	%	98.27	%	
Heat Rate	10,592	BTU/KWH	10,558	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	171,865,057	2,093.84	3
Partial Scheduled	231	0.04	96,269	1.17	4
Full Forced	0	0.00	506,464	6.17	5
Partial Forced	0	0.00	82,379	1.00	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	629,664		8,208,120		8

* See 'Notes for Nuclear Units' filed with the January 2007 report.
** Gross of Power Agency

BASE LOAD POWER PLANT PERFORMANCE REPORT
Harris 1 **

	Month of February 2007		Twelve Month Summary		See Notes*
MDC	900	MW	900	MW	1
Period Hours	672	HOURS	8,760	HOURS	
Net Generation	626,054	MWH	7,031,339	MWH	2
Capacity Factor	103.51	%	89.18	%	
Equivalent Availability	100.00	%	88.40	%	
Output Factor	103.51	%	100.81	%	
Heat Rate	10,621	BTU/KWH	10,847	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	829,590	10.52	3
Partial Scheduled	0	0.00	1,224	0.02	4
Full Forced	0	0.00	79,650	1.01	5
Partial Forced	0	0.00	75,203	0.95	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	604,800		7,884,000		8

* See 'Notes for Nuclear Units' filed with the January 2007 report.
** Gross of Power Agency

BASE LOAD POWER PLANT PERFORMANCE REPORT
Robinson 2

	Month of February 2007		Twelve Month Summary		See Notes*
MDC	710	MW	710	MW	1
Period Hours	672	HOURS	8,760	HOURS	
Net Generation	508,107	MWH	6,440,274	MWH	2
Capacity Factor	106.49	%	103.55	%	
Equivalent Availability	100.00	%	99.09	%	
Output Factor	106.49	%	104.20	%	
Heat Rate	10,546	BTU/KWH	10,750	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	0	0.00	3
Partial Scheduled	0	0.00	12,767	0.21	4
Full Forced	0	0.00	38,802	0.62	5
Partial Forced	0	0.00	4,782	0.08	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	477,120		6,219,600		8

* See 'Notes for Nuclear Units' filed with the January 2007 report.

BASE LOAD POWER PLANT PERFORMANCE REPORT
Mayo 1 **

	Month of February 2007		Twelve Month Summary		See Notes*
MDC	741	MW	744	MW	1
Period Hours	672	HOURS	8,760	HOURS	
Net Generation	294,739	MWH	4,223,146	MWH	2
Capacity Factor	59.19	%	65.06	%	
Equivalent Availability	71.49	%	89.12	%	
Output Factor	79.62	%	70.52	%	
Heat Rate	10,412	BTU/KWH	10,669	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	92,316	18.54	422,785	6.48	3
Partial Scheduled	1,049	0.21	76,660	1.18	4
Full Forced	35,457	7.12	75,587	1.16	5
Partial Forced	13,145	2.64	134,012	2.06	6
Economic Dispatch	61,246	12.30	1,588,346	24.36	7
Possible MWH	497,952		6,520,360		8

* See 'Notes for Fossil Units' filed with the January 2007 report.
** Gross of Power Agency

BASE LOAD POWER PLANT PERFORMANCE REPORT
Roxboro 2

	Month of February 2007		Twelve Month Summary		See Notes*
MDC	639	MW	665	MW	1
Period Hours	672	HOURS	8,760	HOURS	
Net Generation	397,991	MWH	4,679,513	MWH	2
Capacity Factor	92.68	%	80.35	%	
Equivalent Availability	93.90	%	93.32	%	
Output Factor	92.68	%	83.79	%	
Heat Rate	9,327	BTU/KWH	9,369	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	55,175	0.95	3
Partial Scheduled	26,208	6.10	231,329	3.97	4
Full Forced	0	0.00	96,119	1.65	5
Partial Forced	0	0.00	5,703	0.10	6
Economic Dispatch	5,209	1.21	757,465	13.01	7
Possible MWH	429,408		5,823,940		8

* See 'Notes for Fossil Units' filed with the January 2007 report.

BASE LOAD POWER PLANT PERFORMANCE REPORT
Roxboro 3

	Month of February 2007		Twelve Month Summary		See Notes*
MDC	705	MW	707	MW	1
Period Hours	672	HOURS	8,760	HOURS	
Net Generation	428,492	MWH	3,833,270	MWH	2
Capacity Factor	90.44	%	61.92	%	
Equivalent Availability	99.98	%	79.95	%	
Output Factor	90.44	%	74.78	%	
Heat Rate	10,274	BTU/KWH	10,244	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	1,064,729	17.20	3
Partial Scheduled	76	0.02	66,279	1.07	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	0	0.00	110,472	1.78	6
Economic Dispatch	45,192	9.54	1,112,886	17.98	7
Possible MWH	473,760		6,190,400		8

* See 'Notes for Fossil Units' filed with the January 2007 report.

BASE LOAD POWER PLANT PERFORMANCE REPORT
Roxboro 4 **

	Month of February 2007		Twelve Month Summary		See Notes*
MDC	698	MW	700	MW	1
Period Hours	672	HOURS	8,760	HOURS	
Net Generation	366,292	MWH	4,067,996	MWH	2
Capacity Factor	78.09	%	66.37	%	
Equivalent Availability	100.00	%	95.68	%	
Output Factor	78.09	%	67.29	%	
Heat Rate	10,135	BTU/KWH	10,544	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	77,770	1.27	3
Partial Scheduled	0	0.00	160,714	2.62	4
Full Forced	0	0.00	5,600	0.09	5
Partial Forced	0	0.00	20,567	0.34	6
Economic Dispatch	102,764	21.91	1,796,521	29.31	7
Possible MWH	469,056		6,129,080		8

* See 'Notes for Fossil Units' filed with the January 2007 report.
** Gross of Power Agency

CAPACITY FACTOR REPORT

Plant	Unit	Current MW Rating	January 2006 - December 2006	February 2007	January 2007 - February 2007
Asheville	1	197	72.44	73.79	73.32
Asheville	2	186	60.37	80.96	66.64
Cape Fear	5	144	72.32	68.40	70.46
Cape Fear	6	173	65.99	67.20	65.39
Lee	1	77	47.56	67.59	51.99
Lee	2	77	43.52	71.28	56.03
Lee	3	252	60.06	84.01	67.30
Mayo	1	741	67.04	59.19	62.37
Robinson	1	180	78.19	81.74	84.70
Roxboro	1	383	77.79	91.20	80.05
Roxboro	2	639	81.26	92.68	77.47
Roxboro	3	705	59.60	90.44	82.35
Roxboro	4	698	65.20	78.09	71.09
Sutton	1	97	44.30	62.20	51.04
Sutton	2	106	46.43	71.28	57.42
Sutton	3	403	54.54	70.98	69.70
Weatherspoon	1	49	36.15	63.72	51.09
Weatherspoon	2	49	37.40	51.58	43.87
Weatherspoon	3	79	50.52	81.99	71.09
Fossil System Total		5,235	65.25	77.99	71.11
Brunswick	1	938	87.51	103.79	103.30
Brunswick	2	937	89.68	101.06	100.55
Harris	1	900	89.16	103.51	103.41
Robinson Nuclear	2	710	103.59	106.49	106.25
Nuclear System Total		3,485	91.80	103.53	103.19
Total System		8,720	75.80	88.20	83.93

Amended SC Fuel Rule
Related to Nuclear Operations

There shall be a rebuttable presumption that an electrical utility made every reasonable effort to minimize cost associated with the operation of its nuclear generation system if the utility achieved a net capacity factor ≥ 92.5% during the 12 month period under review. For the test period April 1, 2006 through February 28, 2007, actual period to date performance is summarized below:

Period to Date: April 1, 2006 to February 28, 2007

Nuclear System Capacity Factor Calculation (Based on net generation)

A. Nuclear system actual generation for SCPSC test period	A =	26,042,626	MWH
B. Total number of hours during SCPSC test period	B =	8,016	hours
C. Nuclear system MDC during SCPSC test period (see page 2)	C =	3,485	MW
D. Reasonable nuclear system reductions (see page 2)	D =	2,380,350	MWH
E. SC Fuel Case nuclear system capacity factor: [(A+D) / (B+C)] * 100 =		101.7%	

NOTE:
If Line Item E ≥ 92.5%, presumption of utility's minimum cost of operation.
If Line Item E < 92.5%, utility has burden of proof of reasonable operations.

Amended SC Fuel Rule
Nuclear System Capacity Factor Calculation
Reasonable Nuclear System Reductions
Period to Date: April 1, 2006 to February 28, 2007

Nuclear Unit Name and Designation	BNP Unit # 1	BNP Unit # 2	HNP Unit # 1	RNP Unit # 2	Nuclear System
Unit MDC	938 MW	937 MW	900 MW	710 MW	3,485 MW
Reasonable refueling outage time (MWH)	160,194	0	829,590	0	
Reasonable maintenance, repair, and equipment replacement outage time (MWH)	316,218	772,939	80,268	45,402	
Reasonable coast down power reductions (MWH)	2,692	3,674	0	0	
Reasonable power ascension power reductions (MWH)	24,530	84,173	4,019	3,791	
Prudent NRC required testing outages (MWH)	18,231	27,436	36	6,384	
SCPSC identified outages not directly under utility control (MWH)	0	0	0	0	
Acts of Nature reductions (MWH)	0	0	0	774	
Reasonable nuclear reduction due to low system load (MWH)	0	0	0	0	
Unit total excluded MWH	521,865	888,222	913,913	56,351	
Total reasonable outage time exclusions [carry to Page 1, Line D]					2,380,350